

## WEST Search History

DATE: Wednesday, October 08, 2003

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*

L1	air near5 (conditioner or conditioning or purifier or purifying)	179377	L1
L2	L1 same (ionizer or ion near5 (generator or generating) or precipitator)	575	L2
L3	taylor-charles\$.in. or lau-shek\$.in.	286	L3
L4	l2 not L3	552	L4
L5	L4 and (light or lamp or UV or ultraviolet)	121	L5
L6	L5 and ((422/\$)!.CCLS.)	30	L6

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 30 of 30 returned.** 1. Document ID: US 20030072675 A1

L6: Entry 1 of 30

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072675

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030072675 A1

TITLE: Sterilization method, ion generating device, ion generating device, and air conditioning device

PUBLICATION-DATE: April 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Takeda, Yasukata	Osaka-shi		JP	
Sekoguchi, Yoshinori	Osaka-shi		JP	
Furukawa, Takeshi	Osaka-shi		JP	
Morikawa, Mamoru	Osaka-shi		JP	
Noguchi, Katsutoshi	Osaka-shi		JP	
Nojima, Hideo	Osaka-shi		JP	
Nishikawa, Kazuo	Osaka-Shi		JP	
Miyata, Akio	Osaka-Shi		JP	

US-CL-CURRENT: 422/22; 422/186.04, 422/29
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn Dese](#) | [Image](#)
 2. Document ID: US 20030019355 A1

L6: Entry 2 of 30

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030019355

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030019355 A1

TITLE: Device and method for selectively removing gaseous pollutants from the ambient air

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goebel, Johann	Muenchen		DE	
Oberpriller, Helmut	Kleinhoehenrain		DE	
Peuser, Peter	Riemerling		DE	

US-CL-CURRENT: 95/57; 422/121, 96/16

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

3. Document ID: US 20020098130 A1

L6: Entry 3 of 30

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098130 A1

TITLE: Apparatus for purifying and deodorizing air

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hai Fong, William Wing	Kin		HK	

US-CL-CURRENT: 422/186.04

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

4. Document ID: US 20010031225 A1

L6: Entry 4 of 30

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010031225

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010031225 A1

TITLE: Salt air freshener apparatus and method

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandish, Theodore O.	Mims	FL	US	

US-CL-CURRENT: 422/120; 264/129, 264/234, 422/123, 422/125

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

5. Document ID: US 6607702 B1

L6: Entry 5 of 30

File: USPT

Aug 19, 2003

US-PAT-NO: 6607702

DOCUMENT-IDENTIFIER: US 6607702 B1

TITLE: Photocatalyst filter, method for fabricating the same and air cleaner thereof

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kang; Kwang Ok	Kyongsangnam-do			KR
Hong; Young Ki	Kyongsangnam-do			KR
Heo; Kyong Wook	Kyongsangnam-do			KR
Lee; Sung Hwa	Kyongsangnam-do			KR
Shin; Soo Yeon	Kyongsangnam-do			KR
Kang; Jung Hun	Kyongsangnam-do			KR
Choi; Yong Bok	Kyongsangnam-do			KR
Yoon; Ju Han	Kyongsangnam-do			KR

US-CL-CURRENT: 422/186.3; 422/121, 422/122, 422/24, 422/4, 422/5

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

6. Document ID: US 6506605 B1

L6: Entry 6 of 30

File: USPT

Jan 14, 2003

US-PAT-NO: 6506605

DOCUMENT-IDENTIFIER: US 6506605 B1

TITLE: System for sensing catalyst coating loss and efficiency

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Fred Mitchell	Princeton Junction	NJ		
Yang; Xiaolin David	Edison	NJ		
Heck; Ronald Marshall	Frenchtown	NJ		
Hoke; Jeffrey B.	North Brunswick	NJ		
Waterman; Earl Marvin	Iselin	NJ		
Liu; Xinheng	Edison	NJ		
Anderson; Dennis Ray	Plainsboro	NJ		
Robertson; Arthur Bruce	Greenbelt	MD		
Poles; Terence Christopher	Ringo	NJ		

US-CL-CURRENT: 436/37; 422/119, 436/149, 436/164, 436/172, 436/56, 436/84

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7. Document ID: US 6315959 B1

L6: Entry 7 of 30

File: USPT

Nov 13, 2001

US-PAT-NO: 6315959

DOCUMENT-IDENTIFIER: US 6315959 B1

TITLE: Salt air freshener apparatus and method

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandish; Theodore O.	Mims	FL	32754	

US-CL-CURRENT: 422/125, 239/60, 264/239, 264/340, 264/DIG.34, 422/120, 422/123[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 8. Document ID: US 6270720 B1

L6: Entry 8 of 30

File: USPT

Aug 7, 2001

US-PAT-NO: 6270720

DOCUMENT-IDENTIFIER: US 6270720 B1

TITLE: Salt air freshener apparatus and method

DATE-ISSUED: August 7, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandish; Theodore O.	Mims	FL	32754	

US-CL-CURRENT: 422/4, 239/60, 422/120, 422/123, 422/125, 422/5[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 9. Document ID: US 5993738 A

L6: Entry 9 of 30

File: USPT

Nov 30, 1999

US-PAT-NO: 5993738

DOCUMENT-IDENTIFIER: US 5993738 A

\*\* See image for Certificate of Correction \*\*

TITLE: Electrostatic photocatalytic air disinfection

DATE-ISSUED: November 30, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goswani; D. Yogi	Gainesville	FL		

US-CL-CURRENT: 422/22, 422/121, 422/122, 422/24, 422/4, 96/16, 96/69, 96/98[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 10. Document ID: US 5938823 A

L6: Entry 10 of 30

File: USPT

Aug 17, 1999

US-PAT-NO: 5938823

DOCUMENT-IDENTIFIER: US 5938823 A

TITLE: Integrated electrostatic collection and microwave sterilization for

bioaerosol air purification

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Condit; David A.	Avon	CT		
Obee; Timothy N.	South Windsor	CT		
Sutton; Willard H.	Glastonbury	CT		
Grzybowski; Richard R.	Plantsville	CT		
Pater; Christopher M.	Colchester	CT		
Rinaldi; Antonio	Wethersfield	CT		
Satyapal; Sunita	East Hampton	CT		
Schmidt; Wayde R.	Pomfret Center	CT		
Winston; Charles R.	Glastonbury	CT		
Winter; Michael	New Haven	CT		

US-CL-CURRENT: 96/16; 422/121, 96/224, 96/225, 96/25, 96/69, 96/98

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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11. Document ID: US 5879435 A

L6: Entry 11 of 30

File: USPT

Mar 9, 1999

US-PAT-NO: 5879435

DOCUMENT-IDENTIFIER: US 5879435 A

TITLE: Electronic air cleaner with germicidal lamp

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Satyapal; Sunita	East Hampton	CT		
Michels; H. Harvey	West Hartford	CT		
Faris; William A.	Syracuse	NY		

US-CL-CURRENT: 96/16; 422/24, 95/74, 96/224, 96/28

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Drawn Desc](#) | [Image](#)

12. Document ID: US 5730073 A

L6: Entry 12 of 30

File: USPT

Mar 24, 1998

US-PAT-NO: 5730073

DOCUMENT-IDENTIFIER: US 5730073 A

TITLE: Waste flon disposal method

DATE-ISSUED: March 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobata; Takeji	Sapporo			JP

US-CL-CURRENT: 110/346; 110/229, 110/235, 110/255, 422/168, 422/169

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13. Document ID: US 5468454 A

L6: Entry 13 of 30

File: USPT

Nov 21, 1995

US-PAT-NO: 5468454

DOCUMENT-IDENTIFIER: US 5468454 A

TITLE: Compact sterilizing deodorizing and freshness-preserving apparatus for use in a refrigerator

DATE-ISSUED: November 21, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Chun T.	Suwon			KR

US-CL-CURRENT: 422/121; 422/120, 422/122, 422/186.04

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

14. Document ID: US 5433772 A

L6: Entry 14 of 30

File: USPT

Jul 18, 1995

US-PAT-NO: 5433772

DOCUMENT-IDENTIFIER: US 5433772 A

TITLE: Electrostatic air filter for mobile equipment

DATE-ISSUED: July 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sikora; David	Dallas	TX	75248	

US-CL-CURRENT: 96/87; 422/120, 55/357, 55/385.3, 96/88, 96/89, 96/96

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

15. Document ID: US 5250258 A

L6: Entry 15 of 30

File: USPT

Oct 5, 1993

US-PAT-NO: 5250258

DOCUMENT-IDENTIFIER: US 5250258 A

TITLE: Method for purifying and activating air and apparatus therefor

DATE-ISSUED: October 5, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oh, Byeung-ok	Jongro-Gu, Seoul			KR

US-CL-CURRENT: 422/22; 250/428, 250/432R, 250/504R, 356/436, 356/437, 356/438,  
422/120, 422/121

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Drawn Desc](#) [Image](#)

16. Document ID: US 4917862 A

L6: Entry 16 of 30

File: USPT

Apr 17, 1990

US-PAT-NO: 4917862

DOCUMENT-IDENTIFIER: US 4917862 A

TITLE: Filter and method for removing mercury, bacteria, pathogens and other vapors from gas

DATE-ISSUED: April 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraw; Allan	Albuquerque	NM	87114	
Kraw; Carol A.	Albuquerque	NM	87114	

US-CL-CURRENT: 422/4; 422/122, 423/210, 423/239.1, 454/245, 55/501, 95/134, 96/134,  
96/224

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Drawn Desc](#) [Image](#)

17. Document ID: US 4770674 A

L6: Entry 17 of 30

File: USPT

Sep 13, 1988

US-PAT-NO: 4770674

DOCUMENT-IDENTIFIER: US 4770674 A

\*\* See image for Certificate of Correction \*\*  
\*\* See image for Reexamination Certificate \*\*

TITLE: Gas conditioning for an electrostatic precipitator

DATE-ISSUED: September 13, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tellini; Marco G.	Montclair	NJ		
Pfoutz; Billy D.	Somerville	NJ		

US-CL-CURRENT: 95/4; 422/110, 422/111, 422/160, 422/161, 423/533, 95/58, 96/19,  
96/52

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 18. Document ID: US 4655933 A

L6: Entry 18 of 30

File: USPT

Apr 7, 1987

US-PAT-NO: 4655933

DOCUMENT-IDENTIFIER: US 4655933 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: April 7, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.07,  
422/186.08, 422/186.3, 422/907[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 19. Document ID: US 4630530 A

L6: Entry 19 of 30

File: USPT

Dec 23, 1986

US-PAT-NO: 4630530

DOCUMENT-IDENTIFIER: US 4630530 A

TITLE: Filtering systems for buses

DATE-ISSUED: December 23, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eckstrom; William R.	Dolton	IL		
Conrad; John R.	Westlake Village	CA		

US-CL-CURRENT: 454/100; 4/209FF, 422/186.1, 454/158, 55/385.3, 55/481, 62/244,  
96/138, 96/224, 96/57[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 20. Document ID: US 4563286 A

L6: Entry 20 of 30

File: USPT

Jan 7, 1986

US-PAT-NO: 4563286

DOCUMENT-IDENTIFIER: US 4563286 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721; 204/157.15, 210/758, 210/760, 422/186.01, 422/186.3

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21. Document ID: US 4253852 A

L6: Entry 21 of 30

File: USPT

Mar 3, 1981

US-PAT-NO: 4253852

DOCUMENT-IDENTIFIER: US 4253852 A

TITLE: Air purifier and ionizer

DATE-ISSUED: March 3, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Paul C.	Berkeley	CA		

US-CL-CURRENT: 96/58; 361/230, 422/121

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

22. Document ID: US 4245550 A

L6: Entry 22 of 30

File: USPT

Jan 20, 1981

US-PAT-NO: 4245550

DOCUMENT-IDENTIFIER: US 4245550 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: January 20, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP
Fukumori; Yukitsugu	Yokohama			JP
Hayashi; Kazuo	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/224, 96/58

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23. Document ID: US 4227446 A

L6: Entry 23 of 30

File: USPT

Oct 14, 1980

US-PAT-NO: 4227446

DOCUMENT-IDENTIFIER: US 4227446 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: October 14, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: 454/158; 422/121, 454/140, 454/156, 55/385.3, 96/136, 96/224, 96/58[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 24. Document ID: US 4223598 A

L6: Entry 24 of 30

File: USPT

Sep 23, 1980

US-PAT-NO: 4223598

DOCUMENT-IDENTIFIER: US 4223598 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: September 23, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/58[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 25. Document ID: US 4133652 A

L6: Entry 25 of 30

File: USPT

Jan 9, 1979

US-PAT-NO: 4133652

DOCUMENT-IDENTIFIER: US 4133652 A

TITLE: Electronic air conditioner

DATE-ISSUED: January 9, 1979

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Makio	Nakano-Ku, Tokyo-To			JP
Kanazawa; Hikaru	Suginami-Ku, Tokyo-To			JP

US-CL-CURRENT: 96/58; 422/4, 55/414[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 26. Document ID: US 3973927 A

L6: Entry 26 of 30

File: USPT

Aug 10, 1976

US-PAT-NO: 3973927

DOCUMENT-IDENTIFIER: US 3973927 A

TITLE: Process and installation for creating optimum climatic conditions in a room by air purification and ionization control

DATE-ISSUED: August 10, 1976

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furchner; Helmut	D-7032 Sindelfingen 63			DT
Stroiazzo; Bernard	F-54520 Laxou 24			FR

US-CL-CURRENT: 95/3; 422/22, 95/73, 96/19, 96/223[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 27. Document ID: US 3936283 A

L6: Entry 27 of 30

File: USPT

Feb 3, 1976

US-PAT-NO: 3936283

DOCUMENT-IDENTIFIER: US 3936283 A

TITLE: Compact gas purifier

DATE-ISSUED: February 3, 1976

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Solis; Frank	North Hollywood	CA	91604	

US-CL-CURRENT: 96/222; 261/91, 422/4, 55/DIG.34, 96/227, 96/282, 96/324, 96/418[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 28. Document ID: US 3844741 A

L6: Entry 28 of 30

File: USPT

Oct 29, 1974

US-PAT-NO: 3844741

DOCUMENT-IDENTIFIER: US 3844741 A

TITLE: AIR PURIFIER

DATE-ISSUED: October 29, 1974

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dimitrik; Paul	Richardson	TX	75080	

US-CL-CURRENT: 96/16; 250/431, 250/504R, 422/121, 422/186, 422/186.3, 55/467,  
96/139, 96/224, 96/58

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29. Document ID: US 3744216 A

L6: Entry 29 of 30

File: USPT

Jul 10, 1973

US-PAT-NO: 3744216

DOCUMENT-IDENTIFIER: US 3744216 A

TITLE: AIR PURIFIER

DATE-ISSUED: July 10, 1973

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halloran; John J.	Roslyn	PA		

US-CL-CURRENT: 96/16; 422/121, 422/124, 422/24, 422/4, 422/5, 55/315, 55/521,  
55/524, 55/528, 96/27, 96/296

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

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30. Document ID: US 3702526 A

L6: Entry 30 of 30

File: USPT

Nov 14, 1972

US-PAT-NO: 3702526

DOCUMENT-IDENTIFIER: US 3702526 A

TITLE: AIR IONIZATION AND CLEANING ARRANGEMENT

DATE-ISSUED: November 14, 1972

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eichmeier; Joseph	Munich			DT

US-CL-CURRENT: 96/16; 128/205.27, 250/432R, 315/111.01, 361/231, 422/121, 55/385.1

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Terms	Documents
L5 and ((422/\$)!CCLS.)	30

## WEST Search History

DATE: Wednesday, October 08, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L1	air near5 (conditioner or conditioning or purifier or purifying)	179377	L1
L2	L1 same (ionizer or ion near5 (generator or generating) or precipitator)	575	L2
L3	taylor-charles\$.in. or lau-shek\$.in.	286	L3
L4	l2 not L3	552	L4
L5	L4 and (light or lamp or UV or ultraviolet)	121	L5
L6	L5 and ((422/\$)!.CCLS.)	30	L6
L7	electrode near3 (emitting or emitter or emit)	34649	L7
L8	electrode near3 (collecting or collect or collector or collected)	37788	L8
L9	l5 and 17 and 18	3	L9
L10	l5 and electrode	53	L10

END OF SEARCH HISTORY

WEST

[Generate Collection](#)[Print](#)

## Search Results - Record(s) 1 through 50 of 53 returned.

 1. Document ID: US 20030098650 A1

L10: Entry 1 of 53

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030098650  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20030098650 A1

TITLE: Ion generating apparatus

PUBLICATION-DATE: May 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Adachi, Yoshiichi	Nagoya-shi Aichi		JP	
Kato, Yuji	Nagoya-shi Aichi		JP	

US-CL-CURRENT: 313/587
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)
[KMC](#) | [Drawn Desc](#) | [Image](#)
 2. Document ID: US 20030072675 A1

L10: Entry 2 of 53

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072675  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20030072675 A1

TITLE: Sterilization method, ion generating device, ion generating device, and air conditioning device

PUBLICATION-DATE: April 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Takeda, Yasukata	Osaka-shi		JP	
Sekoguchi, Yoshinori	Osaka-shi		JP	
Furukawa, Takeshi	Osaka-shi		JP	
Morikawa, Mamoru	Osaka-shi		JP	
Noguchi, Katsutoshi	Osaka-shi		JP	
Nojima, Hideo	Osaka-shi		JP	
Nishikawa, Kazuo	Osaka-Shi		JP	
Miyata, Akio	Osaka-Shi		JP	

US-CL-CURRENT: 422/22; 422/186.04, 422/29
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)
[KMC](#) | [Drawn Desc](#) | [Image](#)

3. Document ID: US 20030019355 A1

L10: Entry 3 of 53

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030019355

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030019355 A1

TITLE: Device and method for selectively removing gaseous pollutants from the ambient air

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Goebel, Johann	Muenchen		DE	
Oberpriller, Helmut	Kleinhohenrain		DE	
Peuser, Peter	Riemerling		DE	

US-CL-CURRENT: 95/57; 422/121, 96/16[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 4. Document ID: US 20020159215 A1

L10: Entry 4 of 53

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020159215

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020159215 A1

TITLE: Protecting transmissive surfaces

PUBLICATION-DATE: October 31, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Siess, Harold Edward	Gaithersburg	MD	US	

US-CL-CURRENT: 361/232; 96/97[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 5. Document ID: US 20020098130 A1

L10: Entry 5 of 53

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098130 A1

TITLE: Apparatus for purifying and deodorizing air

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hai Fong, William Wing	Kin		HK	

US-CL-CURRENT: 422/186.04

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 6. Document ID: US 20020005116 A1

L10: Entry 6 of 53

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020005116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020005116 A1

TITLE: Electrofiltration apparatus

PUBLICATION-DATE: January 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hagglund, Joel K.	Oakdale	MN	US	
Insley, Thomas I.	Lake Elmo	MN	US	
Johnson, Todd W.	Minneapolis	MN	US	

US-CL-CURRENT: 95/79; 96/100

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 7. Document ID: US 20010025570 A1

L10: Entry 7 of 53

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010025570

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010025570 A1

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

PUBLICATION-DATE: October 4, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fukushima, Fumio	Tokyo		JP	

US-CL-CURRENT: 95/57; 96/55

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KMC</a>	<a href="#">Drawn Desc</a>	<a href="#">Image</a>
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 8. Document ID: US 20010017691 A1

L10: Entry 8 of 53

File: PGPB

Aug 30, 2001

PGPUB-DOCUMENT-NUMBER: 20010017691  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010017691 A1

TITLE: Exposure apparatus

PUBLICATION-DATE: August 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Nikaido, Masaru	Yokosuka-shi		JP	
Ishino, Tomoaki	Kamagaya-shi		JP	
Tadokoro, Tetsuya	Ichikawa-shi		JP	

US-CL-CURRENT: 355/53

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMIC](#) | [Drawn Desc](#) | [Image](#)

9. Document ID: US 6494934 B2

L10: Entry 9 of 53

File: USPT

Dec 17, 2002

US-PAT-NO: 6494934

DOCUMENT-IDENTIFIER: US 6494934 B2

TITLE: Air cleaner, air cleaning method, and air cleaner with sterilization

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukushima; Fumio	Tokyo			JP

US-CL-CURRENT: 95/63; 95/73, 95/77, 96/225, 96/55, 96/94, 96/96

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMIC](#) | [Drawn Desc](#) | [Image](#)

10. Document ID: US 6471746 B2

L10: Entry 10 of 53

File: USPT

Oct 29, 2002

US-PAT-NO: 6471746

DOCUMENT-IDENTIFIER: US 6471746 B2

TITLE: Electrofiltration process

DATE-ISSUED: October 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagglund; Joel K.	Oakdale	MN		
Insley; Thomas I.	Lake Elmo	MN		
Johnson; Todd W.	Minneapolis	MN		

US-CL-CURRENT: 95/78; 55/521, 55/DIG.39, 95/79

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#) 11. Document ID: US 6454839 B1

L10: Entry 11 of 53

File: USPT

Sep 24, 2002

US-PAT-NO: 6454839

DOCUMENT-IDENTIFIER: US 6454839 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Electrofiltration apparatus

DATE-ISSUED: September 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagglund; Joel K.	Oakdale	MN		
Insley; Thomas I.	Lake Elmo	MN		
Johnson; Todd W.	Minneapolis	MN		

US-CL-CURRENT: 96/67; 55/521, 95/78, 95/79, 96/100, 96/69, 96/77[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#) 12. Document ID: US 6396563 B2

L10: Entry 12 of 53

File: USPT

May 28, 2002

US-PAT-NO: 6396563

DOCUMENT-IDENTIFIER: US 6396563 B2

TITLE: Exposure apparatus

DATE-ISSUED: May 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nikaido; Masaru	Yokosuka			JP
Ishino; Tomoaki	Kamagaya			JP
Tadokoro; Tetsuya	Ichikawa			JP

US-CL-CURRENT: 355/30; 355/24, 355/53, 355/70, 355/72, 399/364, 430/311, 430/5[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KMC](#) | [Draw Desc](#) | [Image](#) 13. Document ID: US 6379427 B1

L10: Entry 13 of 53

File: USPT

Apr 30, 2002

US-PAT-NO: 6379427

DOCUMENT-IDENTIFIER: US 6379427 B1

TITLE: Method for protecting exposed surfaces

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Siess; Harold E.	Gaithersburg	MD	20879	

US-CL-CURRENT: 95/57; 361/226, 55/385.2, 95/58, 95/78, 96/16, 96/224

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

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14. Document ID: US 6132902 A

L10: Entry 14 of 53

File: USPT

Oct 17, 2000

US-PAT-NO: 6132902

DOCUMENT-IDENTIFIER: US 6132902 A

TITLE: Electric automobile and electric power drive therefor

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyasaka; Tsutomu	Kanagawa			JP

US-CL-CURRENT: 429/224; 180/65.3, 429/120, 429/304

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

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15. Document ID: US 5993738 A

L10: Entry 15 of 53

File: USPT

Nov 30, 1999

US-PAT-NO: 5993738

DOCUMENT-IDENTIFIER: US 5993738 A

\*\* See image for Certificate of Correction \*\*

TITLE: Electrostatic photocatalytic air disinfection

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goswani; D. Yogi	Gainesville	FL		

US-CL-CURRENT: 422/22; 422/121, 422/122, 422/24, 422/4, 96/16, 96/69, 96/98

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

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16. Document ID: US 5847514 A

L10: Entry 16 of 53

File: USPT

Dec 8, 1998

US-PAT-NO: 5847514

DOCUMENT-IDENTIFIER: US 5847514 A

TITLE: Apparatus for generating negative ions with a lid and a casing

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dai; Robert	Taichung Hsien			TW

US-CL-CURRENT: 315/111.91; 315/58, 315/70, 361/213, 361/225, 361/230, 361/231,  
416/5, 55/385.2, 55/DIG.5, 96/68

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

17. Document ID: US 5845504 A

L10: Entry 17 of 53

File: USPT

Dec 8, 1998

US-PAT-NO: 5845504

DOCUMENT-IDENTIFIER: US 5845504 A

\*\* See image for Certificate of Correction \*\*

TITLE: Portable/potable water recovery and dispensing apparatus

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBleu; Terry L.	San Antonio	TX		

US-CL-CURRENT: 62/92; 62/285

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

18. Document ID: US 5741352 A

L10: Entry 18 of 53

File: USPT

Apr 21, 1998

US-PAT-NO: 5741352

DOCUMENT-IDENTIFIER: US 5741352 A

TITLE: Air cleaner

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ford; Joseph E.	Cary	IL		
Jursich; Donald N.	Chicago	IL		
Chan; Raymond	Vancouver			CA

US-CL-CURRENT: 96/68; 95/78, 96/69, 96/97, 96/99

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [KMC](#) [Draw Desc](#) [Image](#)

19. Document ID: US 5669221 A

L10: Entry 19 of 53

File: USPT

Sep 23, 1997

US-PAT-NO: 5669221

DOCUMENT-IDENTIFIER: US 5669221 A

\*\* See image for Certificate of Correction \*\*

TITLE: Portable, potable water recovery and dispensing apparatus

DATE-ISSUED: September 23, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBleu, Terry L.	San Antonio	TX		
Forsberg, Francis C.	Boerne	TX		

US-CL-CURRENT: 62/92; 62/150, 62/272, 62/285[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 20. Document ID: US 5533527 A

L10: Entry 20 of 53

File: USPT

Jul 9, 1996

US-PAT-NO: 5533527

DOCUMENT-IDENTIFIER: US 5533527 A

TITLE: Treatment method for depressive and neurovegetative disorders

DATE-ISSUED: July 9, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Terman, Michael	New York	NY		

US-CL-CURRENT: 128/898[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 21. Document ID: US 5468454 A

L10: Entry 21 of 53

File: USPT

Nov 21, 1995

US-PAT-NO: 5468454

DOCUMENT-IDENTIFIER: US 5468454 A

TITLE: Compact sterilizing deodorizing and freshness-preserving apparatus for use in a refrigerator

DATE-ISSUED: November 21, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Chun T.	Suwon			KR

US-CL-CURRENT: 422/121, 422/120, 422/122, 422/186.04[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 22. Document ID: US 5456741 A

L10: Entry 22 of 53

File: USPT

Oct 10, 1995

US-PAT-NO: 5456741

DOCUMENT-IDENTIFIER: US 5456741 A

TITLE: Air purifier

DATE-ISSUED: October 10, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahara; Toshihiro	Chiryu			JP
Katou; Kenichi	Nagoya			JP
Takeichi; Masakazu	Okazaki			JP

US-CL-CURRENT: 96/22, 95/6, 96/57, 96/59, 96/67, 96/96, 96/97[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 23. Document ID: US 5296018 A

L10: Entry 23 of 53

File: USPT

Mar 22, 1994

US-PAT-NO: 5296018

DOCUMENT-IDENTIFIER: US 5296018 A

TITLE: Method and apparatus for eliminating electric charges in a clean room

DATE-ISSUED: March 22, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Masanori	Tokyo			JP

US-CL-CURRENT: 95/65, 55/385.2, 95/69, 95/70, 96/52, 96/57, 96/74[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 24. Document ID: US 5207877 A

L10: Entry 24 of 53

File: USPT

May 4, 1993

US-PAT-NO: 5207877

DOCUMENT-IDENTIFIER: US 5207877 A

TITLE: Methods for purification of air

DATE-ISSUED: May 4, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinberg; Norman L.	Amherst	NY		
Genders; John D.	Lancaster	NY		
Minklei; Alfred O.	Grand Island	NY		

US-CL-CURRENT: 423/210; 205/696, 205/701, 205/746, 205/770, 95/154, 95/187

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

25. Document ID: US 5010777 A

L10: Entry 25 of 53

File: USPT

Apr 30, 1991

US-PAT-NO: 5010777

DOCUMENT-IDENTIFIER: US 5010777 A

TITLE: Apparatus and method for establishing selected environmental characteristics

DATE-ISSUED: April 30, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yehl; James E.	Boulder	CO		
Coppom; Rex R.	Boulder	CO		

US-CL-CURRENT: 73/864.81; 361/231, 454/187, 55/385.2, 95/75, 96/44, 96/57, 96/66

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

26. Document ID: US 4812711 A

L10: Entry 26 of 53

File: USPT

Mar 14, 1989

US-PAT-NO: 4812711

DOCUMENT-IDENTIFIER: US 4812711 A

TITLE: Corona discharge air transporting arrangement

DATE-ISSUED: March 14, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Torok; Vilmos	Lidingo			SE
Loreth; Andrzej	Akersberga			SE

US-CL-CURRENT: 315/111.91; 261/DIG.42, 313/231.41, 417/48, 430/937

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

27. Document ID: US 4776515 A

L10: Entry 27 of 53

File: USPT

Oct 11, 1988

US-PAT-NO: 4776515

DOCUMENT-IDENTIFIER: US 4776515 A

TITLE: Electrodynamic aerosol generator

DATE-ISSUED: October 11, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Michalchik; Michael	Newport Beach	CA		

US-CL-CURRENT: 239/3; 239/706, 417/51[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 28. Document ID: US 4702815 A

L10: Entry 28 of 53

File: USPT

Oct 27, 1987

US-PAT-NO: 4702815

DOCUMENT-IDENTIFIER: US 4702815 A

TITLE: Distributed charge composition electrodes and desalting system

DATE-ISSUED: October 27, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prestridge; Floyd L.	Sapulpa	OK		
Johnson; Bruce C.	Broken Arrow	OK		

US-CL-CURRENT: 204/673[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 29. Document ID: US 4655933 A

L10: Entry 29 of 53

File: USPT

Apr 7, 1987

US-PAT-NO: 4655933

DOCUMENT-IDENTIFIER: US 4655933 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: April 7, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721, 204/157.15, 210/758, 210/760, 422/186.01, 422/186.07,  
422/186.08, 422/186.3, 422/907

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

30. Document ID: US 4597781 A

L10: Entry 30 of 53

File: USPT

Jul 1, 1986

US-PAT-NO: 4597781

DOCUMENT-IDENTIFIER: US 4597781 A

TITLE: Compact air purifier unit

DATE-ISSUED: July 1, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spector; Donald	Union City	NJ	07087	

US-CL-CURRENT: 96/52, 55/467, 55/485, 55/487, 55/503, 55/505, 96/222, 96/57, D23/365

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

31. Document ID: US 4563286 A

L10: Entry 31 of 53

File: USPT

Jan 7, 1986

US-PAT-NO: 4563286

DOCUMENT-IDENTIFIER: US 4563286 A

TITLE: System of ionized oxygen allotrope gas water purification and method and apparatus therefor

DATE-ISSUED: January 7, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Dennis E. J.	Aurora	IL	60506	
Johnson; Scott J.	Aurora	IL	60506	

US-CL-CURRENT: 210/721, 204/157.15, 210/758, 210/760, 422/186.01, 422/186.3

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

32. Document ID: US 4521228 A

L10: Entry 32 of 53

File: USPT

Jun 4, 1985

US-PAT-NO: 4521228

DOCUMENT-IDENTIFIER: US 4521228 A

TITLE: Control device for an electrostatic precipitator

DATE-ISSUED: June 4, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Daar; Horst	Erlangen			DE
Alig; Franz	Johannesberg			DE

US-CL-CURRENT: 96/19; 323/903

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

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33. Document ID: US 4274843 A

L10: Entry 33 of 53

File: USPT

Jun 23, 1981

US-PAT-NO: 4274843

DOCUMENT-IDENTIFIER: US 4274843 A

TITLE: Electrostatic type car air purifier

DATE-ISSUED: June 23, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: 96/82; 454/158

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

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34. Document ID: US 4253852 A

L10: Entry 34 of 53

File: USPT

Mar 3, 1981

US-PAT-NO: 4253852

DOCUMENT-IDENTIFIER: US 4253852 A

TITLE: Air purifier and ionizer

DATE-ISSUED: March 3, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adams; Paul C.	Berkeley	CA		

US-CL-CURRENT: 96/58; 361/230, 422/121

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMC](#) | [Draw Desc](#) | [Image](#)

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35. Document ID: US 4245550 A

L10: Entry 35 of 53

File: USPT

Jan 20, 1981

US-PAT-NO: 4245550

DOCUMENT-IDENTIFIER: US 4245550 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: January 20, 1981

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP
Fukumori; Yukitsugu	Yokohama			JP
Hayashi; Kazuo	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/224, 96/58
[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)
[KMC](#) [Draw Desc](#) [Image](#)
 36. Document ID: US 4227894 A

L10: Entry 36 of 53

File: USPT

Oct 14, 1980

US-PAT-NO: 4227894

DOCUMENT-IDENTIFIER: US 4227894 A

TITLE: Ion generator or electrostatic environmental conditioner

DATE-ISSUED: October 14, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Proynoff; John D.	Phoenix	AZ	85016	

US-CL-CURRENT: 96/58; 361/231
[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)
[KMC](#) [Draw Desc](#) [Image](#)
 37. Document ID: US 4227446 A

L10: Entry 37 of 53

File: USPT

Oct 14, 1980

US-PAT-NO: 4227446

DOCUMENT-IDENTIFIER: US 4227446 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: October 14, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sone; Masazumi	Yokohama			JP
Suzuki; Kazuhiko	Yokosuka			JP
Fukumori; Yukitsugu	Yokohama			JP

US-CL-CURRENT: 454/158; 422/121, 454/140, 454/156, 55/385.3, 96/136, 96/224, 96/58[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw. Desc](#) [Image](#) 38. Document ID: US 4223598 A

L10: Entry 38 of 53

File: USPT

Sep 23, 1980

US-PAT-NO: 4223598

DOCUMENT-IDENTIFIER: US 4223598 A

TITLE: Electronic air cleaner for passenger compartment of vehicle

DATE-ISSUED: September 23, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Kazuhiko	Yokosuka			JP
Sone; Masazumi	Yokohama			JP

US-CL-CURRENT: 454/156; 422/121, 454/140, 454/158, 55/385.3, 96/136, 96/58[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw. Desc](#) [Image](#) 39. Document ID: US 4133652 A

L10: Entry 39 of 53

File: USPT

Jan 9, 1979

US-PAT-NO: 4133652

DOCUMENT-IDENTIFIER: US 4133652 A

TITLE: Electronic air conditioner

DATE-ISSUED: January 9, 1979

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Makio	Nakano-Ku, Tokyo-To			JP
Kanazawa; Hikaru	Suginami-Ku, Tokyo-To			JP

US-CL-CURRENT: 96/58; 422/4, 55/414[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw. Desc](#) [Image](#) 40. Document ID: US 3973927 A

L10: Entry 40 of 53

File: USPT

Aug 10, 1976

US-PAT-NO: 3973927

DOCUMENT-IDENTIFIER: US 3973927 A

TITLE: Process and installation for creating optimum climatic conditions in a room by air purification and ionization control

DATE-ISSUED: August 10, 1976

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Furchner; Helmut	D-7032 Sindelfingen 63			DT
Stroiazzo; Bernard	F-54520 Laxou 24			FR

US-CL-CURRENT: 95/3, 422/22, 95/73, 96/19, 96/223[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 41. Document ID: US 3908366 A

L10: Entry 41 of 53

File: USPT

Sep 30, 1975

US-PAT-NO: 3908366

DOCUMENT-IDENTIFIER: US 3908366 A

TITLE: Misfiring detector for internal combustion engines

DATE-ISSUED: September 30, 1975

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Masaki; Kenji	Yokohama			JA

US-CL-CURRENT: 60/277, 340/579, 60/288, 60/289, 73/117.3[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 42. Document ID: US 3744216 A

L10: Entry 42 of 53

File: USPT

Jul 10, 1973

US-PAT-NO: 3744216

DOCUMENT-IDENTIFIER: US 3744216 A

TITLE: AIR PURIFIER

DATE-ISSUED: July 10, 1973

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halloran; John J.	Roslyn	PA		

US-CL-CURRENT: 96/16, 422/121, 422/124, 422/24, 422/4, 422/5, 55/315, 55/521,  
55/524, 55/528, 96/27, 96/296[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 43. Document ID: US 3702526 A

L10: Entry 43 of 53

File: USPT

Nov 14, 1972

US-PAT-NO: 3702526

DOCUMENT-IDENTIFIER: US 3702526 A

TITLE: AIR IONIZATION AND CLEANING ARRANGEMENT

DATE-ISSUED: November 14, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Eichmeier; Joseph	Munich			DT

US-CL-CURRENT: 96/16; 128/205.27, 250/432R, 315/111.01, 361/231, 422/121, 55/385.1

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44. Document ID: JP 2003144972 A

L10: Entry 44 of 53

File: JPAB

May 20, 2003

PUB-NO: JP02003144972A

DOCUMENT-IDENTIFIER: JP 2003144972 A

TITLE: ELECTRIC DUST COLLECTING APPARATUS AND AIR CONDITIONER

PUBN-DATE: May 20, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
IDE, SHINICHI	
SUNAKAWA, MINORU	

INT-CL (IPC): B03 C 3/41; A61 L 9/00; B01 J 35/02; B03 C 3/02; B03 C 3/12; B03 C 3/38; B03 C 3/40; B03 C 3/47; B03 C 3/60; B03 C 3/68; B03 C 3/74; F24 F 1/00; F24 F 11/02

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45. Document ID: JP 2002115861 A

L10: Entry 45 of 53

File: JPAB

Apr 19, 2002

PUB-NO: JP02002115861A

DOCUMENT-IDENTIFIER: JP 2002115861 A

TITLE: AIR CONDITIONER

PUBN-DATE: April 19, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
NOJIMA, HIDEO	
NISHIKAWA, KAZUO	
NOGUCHI, KATSUTOSHI	

INT-CL (IPC): F24 F 1/00; A61 L 9/22

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Image](#) 46. Document ID: JP 09253528 A

L10: Entry 46 of 53

File: JPAB

Sep 30, 1997

PUB-NO: JP409253528A  
DOCUMENT-IDENTIFIER: JP 09253528 A  
TITLE: AIR PURIFIER

PUBN-DATE: September 30, 1997

## INVENTOR-INFORMATION:

NAME	COUNTRY
HARA, SHINICHI	

INT-CL (IPC): B03 C 3/74[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Drawn Desc](#) [Clip Img](#) [Image](#) 47. Document ID: JP 55024572 A

L10: Entry 47 of 53

File: JPAB

Feb 21, 1980

PUB-NO: JP355024572A  
DOCUMENT-IDENTIFIER: JP 55024572 A  
TITLE: ELECTRICAL DUST PRECIPITATOR

PUBN-DATE: February 21, 1980

## INVENTOR-INFORMATION:

NAME	COUNTRY
SASAOKA, RYOSUKE	
KATO, KIMINORI	
ISHINO, YASUO	
MAEKAWA, KAORU	

INT-CL (IPC): B03C 3/12

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L10: Entry 48 of 53

File: DWPI

May 20, 2003

DERWENT-ACC-NO: 2003-499120  
DERWENT-WEEK: 200347  
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TITLE: Electrostatic precipitator for air conditioner, includes photocatalyst which is supported by alumite processing layer on counter electrode and is activated using UV rays, during discharge in ionizer unit

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49. Document ID: WO 200025909 A1 AU 200016079 A US 6176977 B1 US  
20010004046 A1 EP 1135205 A1 CN 1331614 A JP 2002528260 W

L10: Entry 49 of 53

File: DWPI

May 11, 2000

DERWENT-ACC-NO: 2000-365445

DERWENT-WEEK: 200320

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TITLE: Electro-kinetic air transporter-conditioner has an electrode assembly that comprises an array of electrically conductive rod-like and hollow electrodes coupled between output ports

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50. Document ID: US 5993738 A

L10: Entry 50 of 53

File: DWPI

Nov 30, 1999

DERWENT-ACC-NO: 2000-095734

DERWENT-WEEK: 200008

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TITLE: Disinfecting airstream containing microorganisms useful in building systems

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